

ABSTRACT OF THE DISCLOSURE

A method is provided for perforating a steel plate, forming a devolatilizer nozzle from the steel plate, and heat treating the devolatilizer nozzle. The devolatilizer nozzle may have a yield strength of at least about 110 ksi, and a tensile strength of at least about 140 ksi. The perforations in the steel plate are holes in the nozzle and may be no more than about 0.05 inches in diameter. The thickness of the steel plate may be from about 0 to about 0.75 inches. The nozzle may include at least about 500,000 perforations where the center-to-center hole distance may be at least about 0.08 inches. The capacity of the devolatilizer nozzle may be from about 0 to about 75,000 pounds per hour.